Amendments to claims:

This listing of claims will replace all prior versions and listing of claims in the application. Please amend claims 15 and 21 as shown.

Claims 1-14 (canceled).

- 15. (currently amended): A porous insulating film consisting essentially of a highly heat resistant polyimide resin film having a fine porous structure wherein:
- a) fine continuous channels reaching to both surfaces of the <u>insulating</u> film in a nonlinear fashion have a mean pore size of $0.01 2 \mu m$ in the center and both surfaces of the film and a porosity of 15 80%;
- b) the polyimide resin film is prepared from a polyimide precursor solution and consists essentially of a polyimide obtained from the combination of at least one tetracarboxylic acid component and a diamine component; and
- c) the <u>insulating</u> film has a thickness of $5-150 \, \mu m$, μm and a resistance to passage of air of from 30 sec/100 cc to 2000 sec/100 cc and a heat shrinkage of not greater than about $\pm 1\%$ after being heat-treated at 105°C for 8 hours.
- 16. (previously presented): The porous insulating film according to claim 15, wherein the mean pore size is $0.05-1~\mu m$.
- 17. (previously presented): The porous insulating film according to claim 15, wherein the porosity is 30 80%.
- 18. (previously presented): The porous insulating film according to claim 15, wherein the thickness is $5-100 \mu m$.
- 19. (previously presented): The porous insulating film according to claim 15, which is fabricated by a film casting method.
- 20. (previously presented): The porous insulating film according to claim 15, which has a dielectric constant of no greater than 2.5.

- 21. (currently amended): A porous insulating film consisting essentially of a highly heat resistant polyimide resin film having a fine porous structure wherein:
- a) fine continuous channels reaching to both surfaces of the <u>insulating</u> film in a nonlinear fashion have a mean pore size of $0.01 2 \mu m$ in the center and both surfaces of the film; and
- b) the polyimide resin film is prepared from a polyimide precursor solution and consists essentially of a polyimide obtained from the combination of at least one tetracarboxylic acid component and a diamine component and

c) the insulating film has

- (i) a thickness of 5 100 μm,
- (ii) a resistance to passage of air of from 30 sec/100 cc to 2000 sec/100 cc,
- (iii) a heat resistance temperature of at least 200°C and
- (iv) a heat shrinkage of <u>not</u> greater than ±1% <u>after being heat-treated</u> at 105°C <u>for 8</u> hours.
- 22. (previously presented): A battery separator comprising a porous insulating film according to claim 21.
- 23. (previously presented): The porous insulating film according to claim 15 or 21, wherein the tetracarboxylic acid component is selected from a biphenyltetracarboxylic dianhydride, pyromellitic dianhydride and a benzophenonetetracarboxylic dianhydride.
- 24. (previously presented): The porous insulating film according to claim 15 or 21, wherein the diamine component is selected from a phenylenediamine or a diaminodiphenylether.
- 25. (previously presented): The porous insulating film according to claim 15, wherein the pores in the porous structure are arranged in the film substantially parallel to the film surfaces.
- 26. (previously presented): The porous insulating film according to claim 23, wherein the biphenyltetracarboxylic dianhydride is 3,3',4,4'-biphenyltetracarboxylic dianhydride.

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27. (previously presented): The porous insulating film according to claim 21, wherein the pores in the porous structure are arranged in the film substantially parallel to the film surfaces.